

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number  
WO 2005/078562 A1

(51) International Patent Classification<sup>7</sup>:

G06F 3/02

(74) Agent: MOLINS, Michael; Suite 5, Level 6, 139 Macquarie Street, Sydney, New South Wales 2000 (AU).

(21) International Application Number:

PCT/AU2005/000173

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 11 February 2005 (11.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2004900759 16 February 2004 (16.02.2004) AU  
2004901455 19 March 2004 (19.03.2004) AU

(71) Applicant (for all designated States except US): ACEINC PTY LIMITED [AU/AU]; Level 3, 30 Kings Park Road, West Perth, Western Australia 6005 (AU).

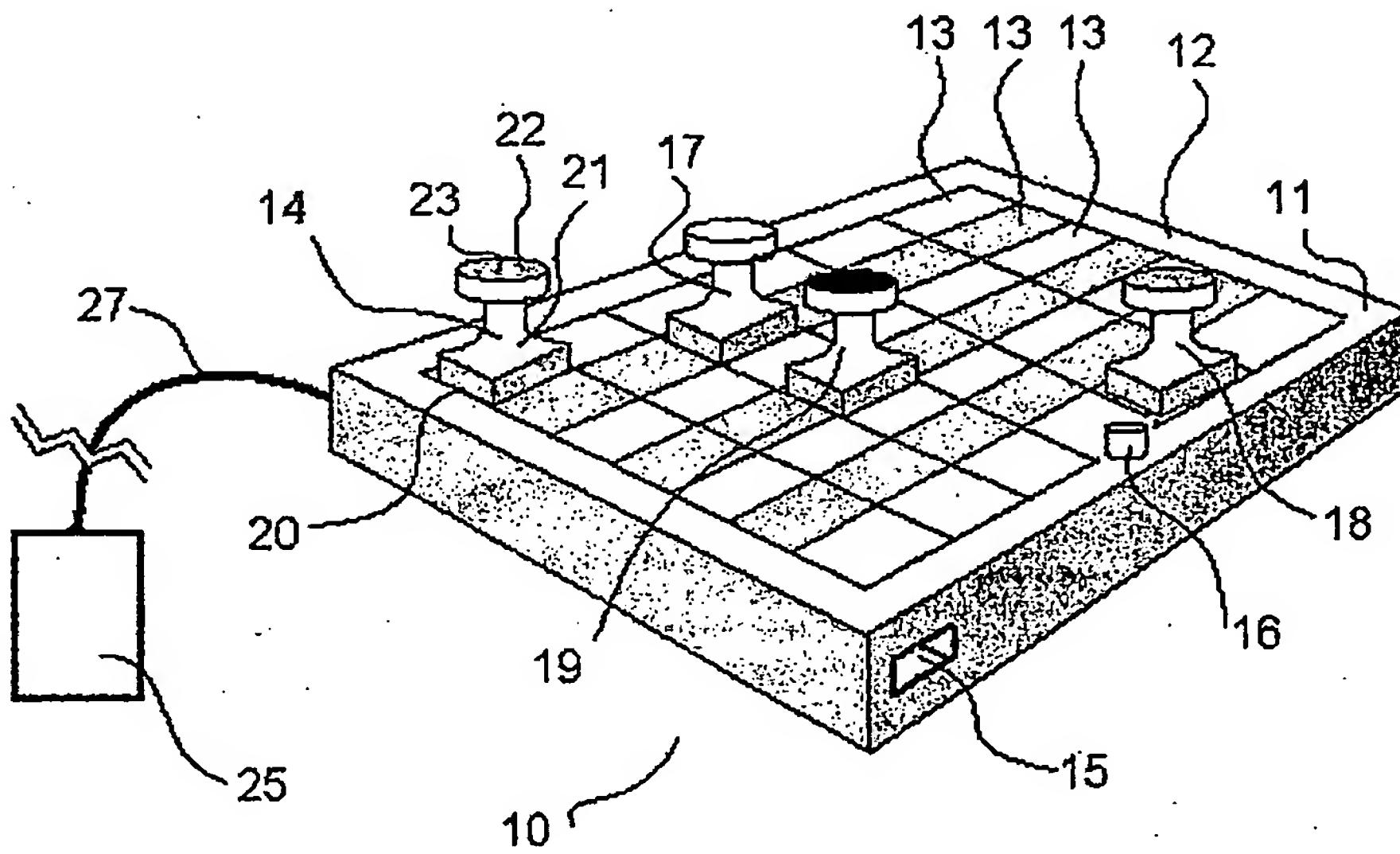
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): COHEN, Thomas, Andrew [AU/AU]; Level 3, 30 Kings Park Road, West Perth, Western Australia 6005 (AU).

[Continued on next page]

(54) Title: PHYSICAL USER INTERFACE



(57) Abstract: A physical user interface is provided as an adjunct to a graphical user interface to a device having an operating system. The physical interface has a work surface or workspace that is scanned by one or more sensors capable of determining the position of objects. The work surface or workspace is sub-divided into two or more regions. Each region is representative of a user-generated command. In some examples, the one or more sensors adapted to determine the position and orientation of one or more counters. The sensors can distinguish which region a counter is located in and what orientation it is in. The sensors provide an output signal, based on the determination, to the device.

WO 2005/078562 A1



**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*